

Patent Abstracts of Japan

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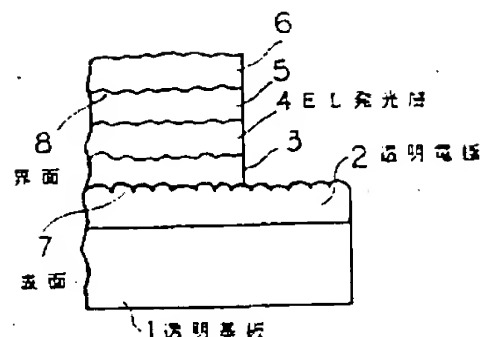
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TITLE : EL ELEMENT AND ITS MANUFACTURE



ABSTRACT : PURPOSE: To improve the quality of a luminous display by limiting the mean particle diameter of crystal particles to form a transparent electrode or moreover to form an electroluminescence luminous layer.

CONSTITUTION: By contacting a gas mainly of an organic gas compound on a transparent base 1 at about 400°C by a thermochemical vapor desposition, a transparent electrode 2 which consists of particles of the mean crystal particle diameter $1\sim 2\times 10^2\text{nm}$ is formed. As a result, at the insulation layer 3 side of the transparent electrode 2, an uneven surface following the particle diameter is formed, the transparent electrode 2 presents no interference color, and a mirror surface reflection at a back electrode 6 can be also suppressed fairly. In this case, in order to suppress the reflection at the interface 8 by the back electrode 6 more sufficiently, the mean crystal particle diameter of the crystal particles to form an EL luminous layer 4 is made $1\sim 2\times 10^2\text{nm}$, and it is preferable to make a gas including an organic zinc compound, an organic sulphur compound, and an organic manganese compound, contacted and formed on a laminate layer of the transparent base 1, the transparent electrode 2, and the insulation layer 3, at 450~500°C.

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